

Competency-Based Education Task/Competency List

Architectural Drawing and Design

8492 – 18 Weeks

8437 – 36 Weeks

Competencies designated by bullets in the left-hand column(s) are considered essential statewide and are required of all students. In some courses, all competencies have been identified as essential. Unbulleted competencies and/or locally added competencies should be included as local conditions permit.

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Note: While the term computer-aided design (CAD) does not appear in each competency, CAD tools and software should be used extensively throughout the course.

8492 18 Wks	8437 36 Wks	Architectural Drawing and Design TASK/COMPETENCY
•	•	1. Define <i>architectural drawing</i> .
•	•	2. Describe the fundamentals of the architectural design process.
•	•	3. Use course experiences to participate in the TSA as a leader, manager, or team member.
•	•	4. Prepare design sketches.
•	•	5. Design a floor plan.
•	•	6. Analyze architectural styles.
•	•	7. Develop site analysis.
	•	8. Design a foundation plan.
•	•	9. Design wall sections.
•	•	10. Design exterior perspective views.
•	•	11. Render presentation designs.
•	•	12. Design exterior elevations.
•	•	13. Design interior elevations.
	•	14. Create door and window schedules.
•	•	15. Acquire specification information, using manuals and Internet.
	•	16. Develop and design electrical plan requirements.
	•	17. List and describe factors and methods of financing.
	•	18. Build presentation models.
	•	19. Create a mass model of a building design.
•	•	20. Create a 3D space for a floor of a building.
	•	21. Understand and apply object technology CAD layer standards, and select and apply a layer standard for a building design.
•	•	22. Create a multiview block architectural library for insertion into a building design.
•	•	23. Create a walk-thru of a section of a building.
•	•	24. Describe career qualifications, responsibilities, and wages, using various resources and the Internet.

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